

ABSTRACT

An injection lance for injecting a fluid over a predefined target area within a system includes a support block with an inlet side and an outlet side. A plurality of channels are disposed non-parallel with respect to each other within the support block and extend between the inlet and outlet sides of the support block so as to receive fluid at the inlet side and deliver fluid through the support block for injection from the outlet side of the support block over the target area. At least two channels extend from the inlet side toward the outlet side in a direction away from a central axis of the support block, where the central axis intersects the outlet side. The target area includes a plurality of consecutively aligned sectors, and the channels are oriented within the support block so that a central axis of a fluid stream injected from each channel over the target area is centered between longitudinal boundaries defined by a respective sector.